



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/074,961	02/13/2002	Masaru Sakuma	AMANO A275-DIV	8864

7590

06/25/2002

Norman P. Soloway
HAYES SOLOWAY P.C.
130 W. Cushing Street
Tucson, AZ 85701

EXAMINER

BEATTY, ROBERT B

ART UNIT

PAPER NUMBER

2852

DATE MAILED: 06/25/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/074,961

Applicant(s)

SAKUMA ET AL.

Examiner

Robert Beatty

Art Unit

2852

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 February 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 16, 18 and 21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 16, 18 and 21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

Art Unit: 2852

1. The disclosure is objected to because of the following informalities: in the "Summary of the Invention" section the applicant describes much more than just the summary of the invention (a summary should not span 8 pages). Further, the summary should not reflect the claimed subject matter that was restricted and now cancelled in this divisional application.

Appropriate correction is required.

2. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The title should reflect the subject matter which is now claimed and not what was restricted and now cancelled.

3. The abstract of the disclosure is objected to because the abstract should reflect the subject matter which is now claimed and not what was restricted and now cancelled. Correction is required. See MPEP § 608.01(b).

3. The drawings are objected to because in Fig.5, "Sterss" is spelled incorrectly. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Art Unit: 2852

4. Claims 1-6, 16, 18, 21 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tanno or Swain.

Swain teaches a drum-type photoconductor having a hollow cylindrical seamless supporting layer 10 comprising a metal and having a thickness 25 μm (0.025 mm). See col. 10, lines 23-43.

Tanno teaches a belt or drum-type photoconductor comprising a seamless conductive supporting layer having a thickness between 50 – 100 μm (0.05 – 0.10 mm). Tanno additionally teaches the metal belt being entrained around two rollers as seen in Fig. 1.

Specifically, Swain or Tanno do not teach the claimed details of manufacturing the photoreceptor's thin conductive support layer nor the Vicker's hardness of the metal layer. However, it is well settled in patent law that the patentability of the product does not depend on the method of production. See MPEP 2113. Further, a metal substrate having the claimed Vicker's hardness is an inherent property of aluminum, nickel, or steel of which the examiner takes Official Notice. Finally, regarding claim 18, the photoconductive belt is considered a "fixing" belt since a toner image is fixed upon it by electrostatic attraction and applicant has not provided any additional limitations that would limit it to a heat fixing device.

Art Unit: 2852

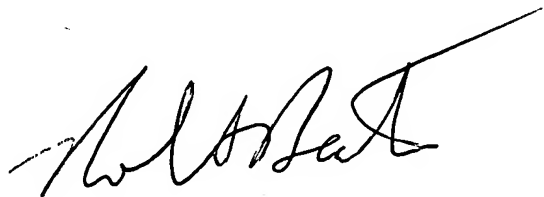
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Heinzer teach a metallic belt having the claimed thickness.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Beatty whose telephone number is 703-308-1372. The examiner can normally be reached on M-F from 9 to 6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley, can be reached on (703) 308-1373. The fax phone number for the organization where this application or proceeding is assigned is 703-308-3431.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1782.

A handwritten signature in black ink, appearing to read 'Robert Beatty', with a long horizontal line extending from the end of the signature.

Robert Beatty
Primary Examiner
Art Unit 2852

June 21, 2002